GENERAC®
Portable Products

4000XL

Portable Generator Owner's Manual

Problems? Questions?
Before taking your unit back to the store, call the generator helpline at
1-800-270-1408
M-F 8-5 CT

Model No. 9777–2 (4000 Watt AC Generator) Manual No. B4400 Revision 4 (9/20/2000)

Visit our Generac website: **www.generac-portables.com**

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

EQUIPMENT DESCRIPTION

This generator is an engine-driven, revolving field, alternating current (AC) generator. It was designed to supply electrical power for operating compatible electrical lighting, appliance, tool, and motor loads. This manual contains information for a generator that operates 120 and/or 240 Volt AC, single phase, 60 Hz devices that require up to 4,000 watts (4.0 kW) of power that pull up to 33.3 Amps at 120 Volts or 16.7 Amps at 240 Volts.

CAUTION! Do Not exceed the generator's wattage/amperage capacity. Add up the rated watts of all devices you are connecting to generator receptacles at one time. This total should not be greater than 4,000 watts. In most cases rated watts of the electrical device can be found on the device nameplate. If the device nameplate gives only volts and amps, multiply volts times amps to obtain watts (volts X amps = watts).

The 4,000 watt generator has the following features:

- 120/240 Volt, 20 Amp locking receptacle and a 120 Volt, 30 Amp locking receptacle.
- 120 Volt, 15 Amp receptacles.
- 12 Volt DC, 10 Amp receptacle.
- Low Oil Shutdown: Automatically shuts down the engine if oil drops below safe operation level.
- Four gallon overhead fuel tank with fuel gauge.
- The generator's revolving field is driven at about 3,600 rpm by a Generac Power Systems 7.8 h.p. engine.

WARNING! Do Not tamper with engine governed speed. High operating speeds are dangerous and increase risk of personal injury or damage to equipment. The generator supplies correct rated frequency and voltage only when running at proper governed speed. Incorrect frequency and/or voltage can damage some connected electrical loads. Operating at excessively low speeds imposes a heavy load. When adequate engine power is not available engine life may be shortened.

SAFETY RULES

This generator set was designed and manufactured for specific applications. **Do Not** attempt to modify the unit or use it for any application it was not designed for. If you have any questions about your generator's application, ask your dealer/distributor or consult the factory.

The manufacturer could not possibly anticipate every circumstance that might involve a hazard. For that reason warnings in the manual and warnings on tags or decals affixed to the unit are not all–inclusive. If you intend to handle, operate or service the unit by a procedure or method not specifically recommended by the manufacturer, first make sure that such a procedure or method will not render this equipment unsafe or pose a threat to you and others.

Read this manual carefully and become familiar with your generator set. Know its applications, its limitations and any hazards involved.

WARNING:

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

DANGER! You must isolate the generator from the electric utility by opening the electrical system's main circuit breaker or main switch if this unit is used for backup power. **Failure to isolate the generator from the power utility may result in injury or death to electric utility workers and damage to the generator** due to a backfeed of electrical energy. Whenever unit is providing backup power, the electric utility must be notified.

DANGER! Generator exhaust gases contain DEADLY carbon monoxide gas. Carbon monoxide, if breathed in sufficient concentrations, can cause unconsciousness or death. Operate this equipment outdoors where adequate ventilation is available.

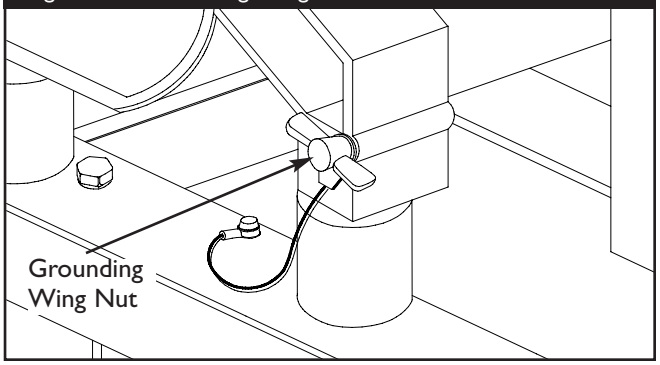
The Emission Control System for this generator is warranted for standards set by the Environmental Protection Agency. For warranty information refer to the engine owner's manual.

- The generator produces a very powerful voltage that can cause serious injury or death by electrocution. **Never** touch bare wires or receptacles. **Never** permit a child or any unqualified person to operate the generator.
- **Never** handle any kind of electrical cord or device while standing in water, while barefoot or while hands or feet are wet. Death or serious injury from electrocution may result.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area (such as metal decking or steel work).
- **Never** use worn, bare, frayed or otherwise damaged electrical cords with the generator. Death, serious injury and property damage from electrical shock may result.
- **Gasoline is highly FLAMMABLE and its vapors are EXPLOSIVE. Never allow smoking, open flames, sparks or heat in the vicinity while handling gasoline.** Avoid spilling gasoline on a hot engine. Comply with all laws regulating storage and handling of gasoline.
- **Do Not** overfill the fuel tank. Always allow room for fuel expansion. **If tank is overfilled, fuel can overflow onto a hot engine and cause a FIRE or an EXPLOSION.**
- **Never** store a generator with fuel in the tank where gasoline vapors might reach an open flame, spark or pilot light (as on a furnace, water heater, clothes dryer). FIRE or an EXPLOSION may result.
- The unit requires an adequate flow of cooling air for its continued proper operation. **Never** operate the unit inside any room or enclosure where the free flow of cooling air into and out of the unit might be obstructed. Allow at least 2 feet of clearance on all sides of generator, even while operating unit outdoors, or you could damage the unit. See "Cold Weather Operation" on page 10.
- **Never** start or stop the unit with electrical loads connected to receptacles with the connected devices turned ON. Start the engine and let it stabilize before connecting any electrical loads. Disconnect all electrical loads before shutting down the generator.
- **Do Not** insert any object through cooling slots of the engine. You could damage the unit or injure yourself.
- **Never operate the generator:** in rain; in any enclosed compartment; when connected electrical devices overheat; if electrical output is lost; if engine or generator sparks; if flame or smoke is observed while unit is running; if unit vibrates excessively.

GROUNDING THE GENERATOR

The National Electrical Code requires that the frame and external electrically conductive parts of this generator be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of the unit. For that purpose, a GROUNDING WING NUT is provided on the generator end (Figure 1).

Figure 1 — Grounding Wing Nut

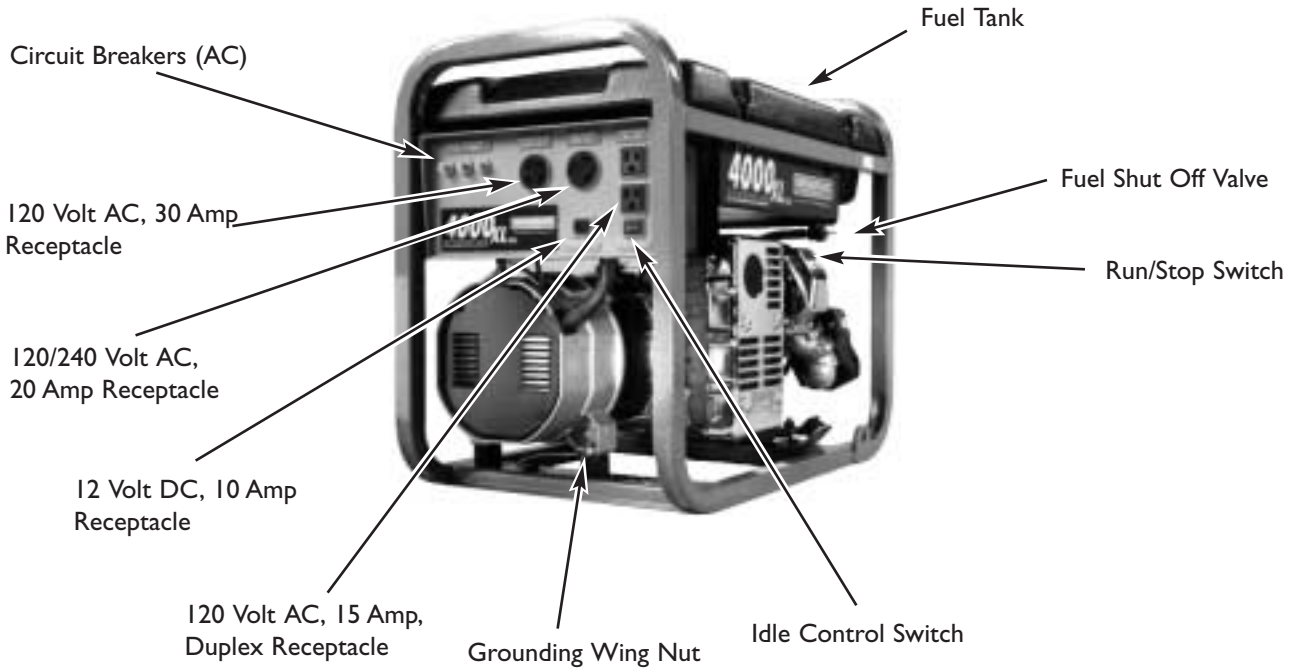


Generally, connecting a No. 12 AWG (American Wire Gauge) stranded copper wire to the grounding wing nut and to an earth-driven copper or brass grounding rod (electrode) provides adequate protection against electrical shock. Be careful to keep the grounding wire attached after connecting the stranded copper wire. However, local codes may vary widely. Consult with a local electrician for grounding requirements in your area.

Properly grounding the generator helps prevent electrical shock if a ground fault condition exists in the generator or in connected electrical devices. Proper grounding also helps dissipate static electricity, which often builds up in ungrounded devices.

KNOW YOUR GENERATOR

Read this owner's manual and safety rules before operating your generator.
Compare the illustrations with your generator to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.


Fuel Tank
Circuit Breakers (AC)
Fuel Shut Off Valve
120 Volt AC, 30 Amp Receptacle
Run/Stop Switch
120/240 Volt AC, 20 Amp Receptacle
12 Volt DC, 10 Amp Receptacle
120 Volt AC, 15 Amp, Duplex Receptacle
Grounding Wing Nut
Idle Control Switch

12 Volt DC, 10 Amp Receptacle — Use this receptacle with battery charge cables to charge a 12 Volt battery.

120 Volt AC, 15 Amp Duplex Receptacle — May be used to supply electrical power for the operation of 120 Volt AC, 15 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

120 Volt AC, 30 Amp Receptacle — May be used to supply electrical power for the operation of 120 Volt AC, 30 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

120/240 Volt AC, 20 Amp Receptacle — May be used to supply electrical power for the operation of 120 and/or 240 Volt AC, 20 Amp, single phase, 60 Hz electrical lighting, appliance, tool and motor loads.

Circuit Breakers (AC) — Each receptacle is provided with a circuit breaker to protect the generator against electrical overload. Breakers are "push to reset" type.

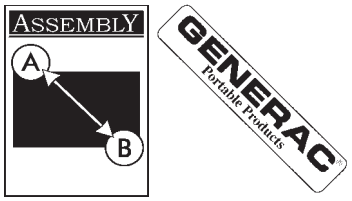
Fuel Shut Off Valve — Controls fuel supply to engine.

Fuel Tank — Capacity of 4 U.S. gallons (15 liters).

Grounding Wing Nut — Provides a tie-point for connecting the generator frame to earth ground.

Idle Control Switch — The idle control runs the engine at normal (high) speeds when there is an electrical load present and runs the engine at idle (low) speeds when a load is not present. This feature greatly improves fuel economy, extends the life of the engine, and reduces engine noise.

Run/Stop Switch — Must be in "**Run**" position to start engine. Set to "**Stop**" to stop a running engine.



CONTENTS

Check all contents. If any parts are missing or damaged, call the generator helpline at **1-800-270-1408**. Review "Cold Weather Operation" on page 8. Shipped with your generator is:

- Main unit
- 20 Amp and 30 Amp locking plugs
- Spare spark plug and air filter
- Spark plug wrench
- Video tape
- Oil
- Engine and unit owner's manual
- Battery charge cables

BEFORE STARTING ENGINE

Add Oil

WARNING! Any attempt to crank or start the engine before it has been properly filled with the recommended oil may result in an engine failure.

To fill your engine with oil:

- Place generator on a level surface.
- Clean area around oil fill and remove oil fill cap.
- Select the oil's viscosity grade and fill engine with oil following the instructions given in the engine owner's manual. **Do Not overfill!**
- Install oil fill cap.

NOTE: The generator's revolving field rides on a pre-lubricated and sealed ball bearing that requires no additional lubrication for the life of the bearing.

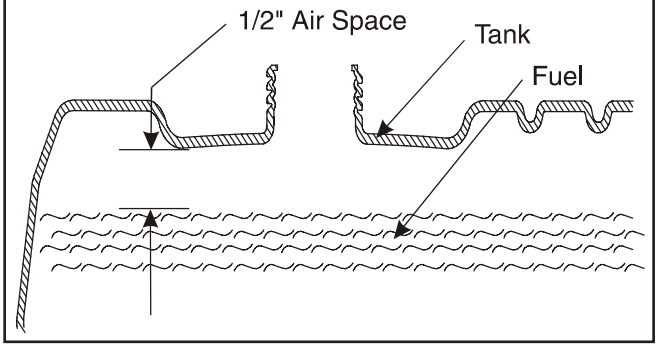
Add Gasoline

DANGER! Explosion Hazard! **Never** fill fuel tank indoors. **Never** fill fuel tank when engine is running or hot. **Do Not** light a cigarette or smoke when filling the fuel tank.

WARNING! Do Not overfill the fuel tank. Always allow room for fuel expansion.

- Use regular **UNLEADED** gasoline with the generator engine. **Do Not** use premium gasoline. **Do Not** mix oil with gasoline.
- Clean area around fuel fill cap, remove cap.
- Slowly add unleaded regular gasoline to fuel tank. Be careful not to overfill. Allow about 1/2" of tank space for fuel expansion (Figure 2).

Figure 2 — Typical Fuel Expansion Space



- Install fuel cap and wipe up any spilled gasoline.

IMPORTANT: It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose or tank during storage. Also, experience indicates that alcohol-blended fuels (called gasohol, ethanol or methanol) can attract moisture, which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. See "Storage" on page 11. **Never** use engine or carburetor cleaner products in the fuel tank as permanent damage may occur.

OPERATING THE GENERATOR

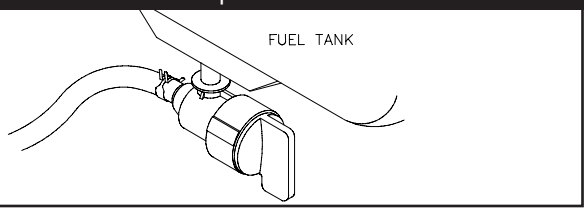
CAUTION! Never start or stop the engine with electrical loads connected to the unit and with the connected devices turned ON.

Starting the Engine

Disconnect all electrical loads from the generator. Use the following start instruction steps by numerical order:

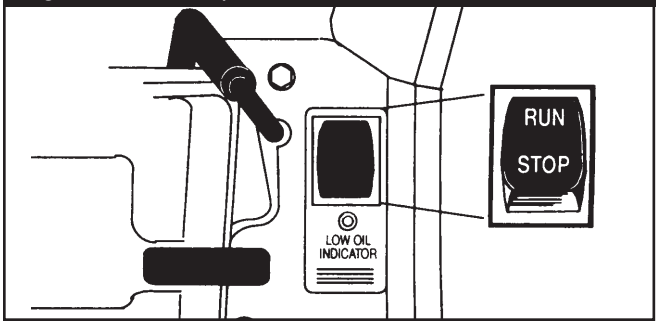
1. Make sure the Idle Control switch is in "**Off**" position.
2. Turn the fuel valve to the "**On**" position (Figure 3).

Figure 3 — Fuel Valve in Open Position.



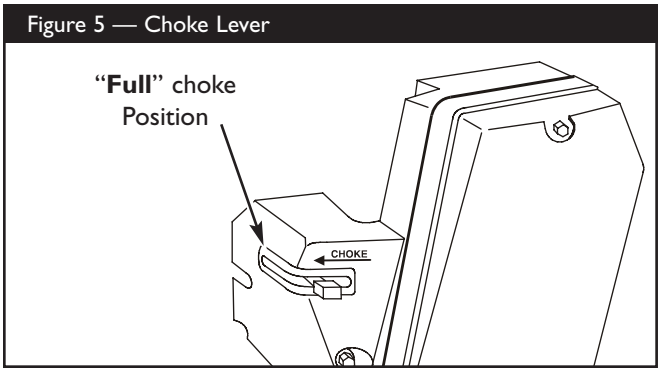
3. Set the Run/Stop switch to "**Run**" position (Figure 4).

Figure 4 — Run/Stop Switch



4. Place the choke lever in the "**Full**" choke position (Figure 5).

Figure 5 — Choke Lever



5. Grasp the recoil handle and pull slowly until slight resistance is felt. Then pull rapidly one time only to start engine.
   - If engine starts, proceed to step 7.
   - If engine fails to start, proceed to step 6.
6. Move the choke lever to "**Half**" choke position, and pull recoil handle twice.
   - If engine fails to start, repeat steps 4 thru 6.
7. Move choke lever to "**Run**" position. If engine falters, move choke lever to "**Half**" choke position until the engine runs smoothly, and then to "**Run**" position.

NOTE: If engine still fails to start after 3 pulls, check for proper oil level in crankcase. This unit is equipped with a Low Oil Shutdown System. See engine manual.

Connecting Electrical Loads

- Let engine stabilize and warm up for a few minutes after starting.
- Plug in and turn on the desired 120 and/or 240 Volt AC, single phase, 60 Hertz electrical loads.
- **Do Not** connect 240 Volt loads to 120 Volt receptacles.
- **Do Not** connect 3–phase loads to the generator.
- **Do Not** connect 50Hz loads to the generator.
- **DO NOT OVERLOAD THE GENERATOR.** Add up the rated watts (or amps) of all loads to be connected at one time. This total should not be greater than the rated wattage/amperage capacity of the generator. See "Don't Overload the Generator" on page 11.

Stopping the Engine

- Unplug **all** electrical loads from generator panel receptacles. **Never** start or stop engine with electrical devices plugged in and turned on.
- Put the Idle Control switch in the "**Off**" position.
- Let engine run at no–load for 30 seconds to stabilize the internal temperatures of engine and generator.
- Move Run/Stop switch to "**Stop**".
- Close the fuel shut–off valve.

Operating Automatic Idle Control

This switch is designed to greatly improve fuel economy. **When this switch is turned ON**, the engine will only run at its normal high governed engine speed when an electrical load is connected. When the load is removed, the engine will run at a reduced speed. **With the switch OFF**, the engine will run at the normal high engine speed. **Always have the switch off when starting and stopping the engine.**

Charging a Battery

DANGER! Storage batteries give off explosive hydrogen gas while recharging. This explosive mixture will remain around the battery for a long time after it has been charged. The slightest spark can ignite the hydrogen and cause an explosion. Such an explosion can shatter the battery and cause blindness or other serious injury.

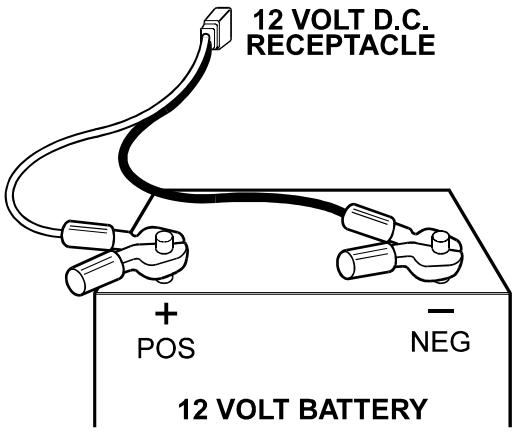
DANGER! Do Not permit smoking, open flame, sparks or any other source of heat around a battery. Wear protective goggles, rubber apron and rubber gloves when working around a battery. Battery electrolyte fluid is an extremely caustic sulfuric acid solution that can cause severe burns. If spill occurs, flush area with clear water immediately.

Your generator has the capability of recharging a discharged 12 Volt automotive or utility style storage battery. **Do Not** use the unit to charge any 6 Volt batteries. **Do Not** use the unit to crank an engine having a discharged battery.

To recharge 12 Volt batteries, proceed as follows:

- Check fluid level in all battery cells. If necessary, add ONLY distilled water to cover separators in battery cells. **Do Not use tap water.**
- If the battery is equipped with vent caps, make sure they are installed and are tight.
- If necessary, clean battery terminals.
- Connect battery charge cable connector plug to panel receptacle identified by the words "12-VOLT D.C."
- Connect battery charge cable clamp with **red** handle to the **positive (+)** battery terminal (Figure 6).

Figure 6 — Battery Connections



- Connect battery charge cable clamp with **black** handle to the **negative (–)** battery terminal (Figure 6).
- Start engine. Let the engine run while battery recharges.
- When battery has charged, shut down engine

NOTE: Use an automotive hydrometer to test battery state of charge and condition. Follow the hydrometer manufacturer's instructions carefully. Generally, a battery is considered to be at 100% state of charge when specific gravity of its fluid (as measured by hydrometer) is 1.260 or higher.

Cold Weather Operation

Under certain weather conditions (temperatures below 40°F [4°C] and a high dew point), your Generac generator may experience icing of the carburetor and/or the crankcase breather system.

In an emergency, use the original shipping box as a temporary shelter:

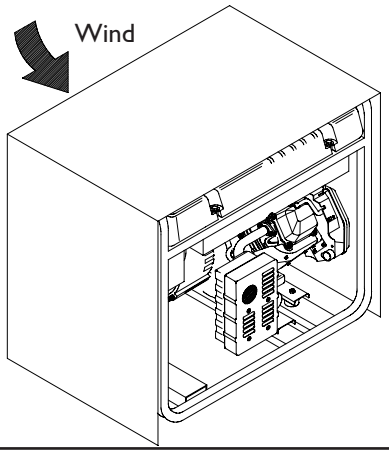
- Cut off all flaps.
- Cut out one of the long sides of the box to expose exhaust side of unit. Ensure a minimum of two feet clearance between open side of box and nearest object.
- Cut appropriate slots to access receptacles of unit.
- Start unit, then place box over it.

IMPORTANT: Remove shelter when temperature is above 40°F [4°C].

For a more permanent shelter, build a structure that will enclose three sides and the top of the generator:

- Make sure entire muffler-side of generator is exposed (Figure 7).

Figure 7 — Temporary Cold Weather Shelter



- Ensure a minimum of two feet clearance between open side of box and nearest object.
- Face exposed end away from wind and elements.
- Enclosure should hold enough heat created by the generator to prevent problems.

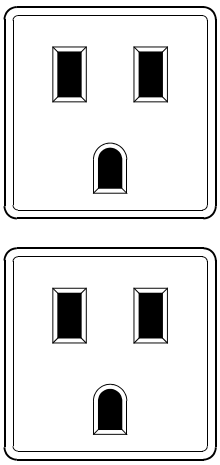
CAUTION! NEVER run unit indoors; **Do Not** enclose generator any more than shown. Remove shelter when temperatures are above 40°F [4°C].

RECEPTACLES

120 Volt AC, 15 Amp Receptacles

Each of these outlets is protected against overload by 15 Amp push-to-reset type circuit breakers (Figure 8).

Figure 8 — 120 Volt AC, 15 Amp Duplex Receptacle

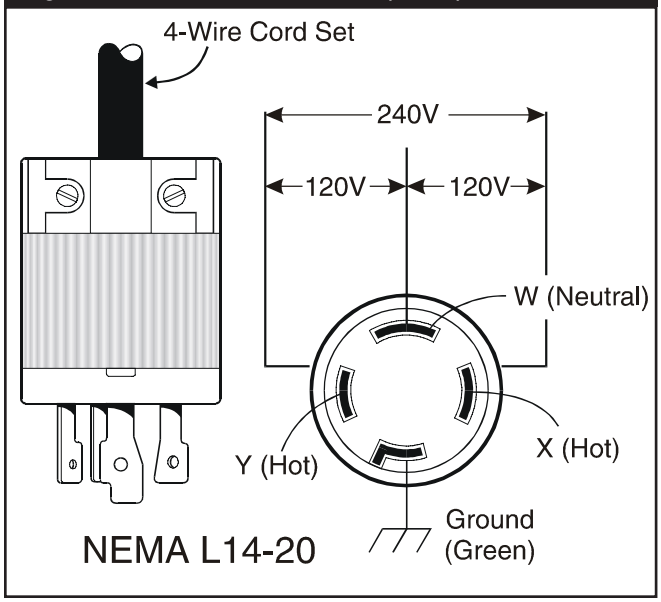


Use each outlet to operate 120 Volt, 60 Hz, single phase loads requiring 1,800 (1.8 kW) watts at 15 Amps of current.

120/240 Volt AC, 20 Amp Locking Receptacle

Use a NEMA L14-20 plug with this receptacle. Connect a 4-wire cord set rated for 250 Volts at 20 Amps (or greater) (Figure 9). You can use the same 4-wire cord if you plan to run a 120 Volt load.

Figure 9 — 120/240 Volt AC, 20 Amp Receptacle

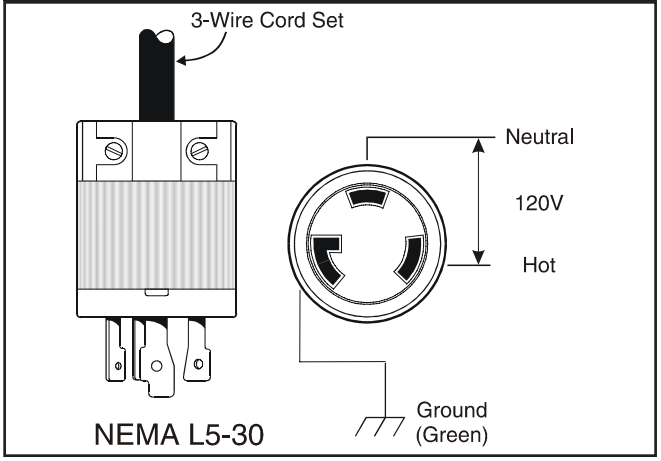


This receptacle powers 120/240 Volt AC, 60 Hz, single phase loads requiring up to 2,400 watts of power at 20 Amps for 120 Volts; 4,000 watts of power (4.0 kW) at 16.7 Amps for 240 Volts. The outlet is protected by a 20 Amp push-to-reset circuit breaker.

120 Volt AC, 30 Amp Locking Receptacle

Use a NEMA L5-30 plug with this receptacle. Connect a 3-wire cord set rated for 125 Volts AC at 30 Amps to the plug (Figure 10).

Figure 10 — 120 Volt AC, 30 Amp Locking Receptacle

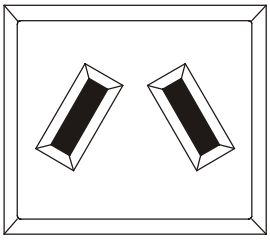


Use this receptacle to operate 120 Volt AC, 60 Hz, single phase loads requiring up to 3,600 watts (3.6 kW) of power at 30 Amps. The outlet is protected by a 30 Amp push-to-reset circuit breaker.

12 Volt DC, 10 Amp Receptacle

This connector (identified by the legend "12-VOLT D.C.") supplies 12 Volts DC at 10 Amps through battery charging cables for recharging 12 Volt batteries (Figure 11). See "Charging a Battery" on page 7.

Figure 11 — 12 Volt DC, 10 Amp Receptacle



DON'T OVERLOAD THE GENERATOR

Overloading a generator in excess of its rated wattage capacity can result in damage to the generator and/or connected electrical devices. Observe the following, to prevent overloading the unit:

- Add up the total wattage of all electrical devices to be connected at one time. This total should NOT be greater than the generator's wattage capacity.
- The rated wattage of lights can be taken from light bulbs. The rated wattage of tools, appliances and motors can usually be found on a data plate or decal affixed to the device.
- If the appliance, tool or motor does not give wattage, multiply 120 Volts times ampere rating to determine watts (volts x amps = watts).
- Some electric motors, such as induction types, require about three times more watts of power for starting than for running. This surge of power lasts for only a few seconds when starting such motors. Be sure you allow for this high starting wattage when selecting electrical devices to connect to your generator. First estimate the watts needed to start the largest motor. Add to that figure the running watts of all other connected loads.
- The wattage reference guide (Figure 11) is provided to help you to determine how many items the generator can operate at one time.

Figure 11 — Wattage Reference Guide

Recreational/Home Uses	
Tool/Appliance	**Watts**
AM/FM clock radio	50
Light bulb	100
Fan	200
20" color TV	400
*Deep freezer	500
Personal computer and 15" monitor	800
*1/3 hp furnace fan blower	800
Microwave oven	800
*18 cu ft refrigerator	800
Sump pump	1000
Electric skillet	1250
*½ hp water well pump	1400
*12,000 Btu window air conditioner	1400
Space heater	1800
Electric water heater	4000

Professional/Contractor Uses	
Tool/Appliance	**Watts**
*1/3 hp airless sprayer	600
3/8" hammer drill	600
Variable speed Sawzall®	960
½" power drill	1000
Quartz-halogen work light	1000
Belt sander	1200
7 ¼" circular saw	1500
7 ¼" worm drive saw	1600
*1½ hp air compressor	1800
*10" power miter saw	1800
6" bench grinder	1800
*6" table planer	1800
*10" table/radial arm saw	2000
Wire feed welder	2400

* allow 3 times listed watts for starting this device

SPECIFICATIONS

Maximum Surge Watts	5,000 Watts
Continuous Wattage Capacity	4,000 Watts
Power Factor	1.0
Rated Maximum Continuous Load Current	
At 120 Volts	33.3 Amps
At 240 Volts	16.7 Amps
Phase	1-phase
Rated Frequency	60 Hertz
Fuel Tank Capacity	4 U.S. gallons

GENERAL MAINTENANCE RECOMMENDATIONS

The Owner/Operator is responsible for making sure that all periodic maintenance tasks are completed on a timely basis; that all discrepancies are corrected; and that the unit is kept clean and properly stored. **Never operate a damaged or defective generator.**

Engine Maintenance

See engine manual for instructions.

Generator Maintenance

Generator maintenance consists of keeping the unit clean and dry. Operate and store the unit in a clean dry environment where it will not be exposed to excessive dust, dirt, moisture or any corrosive vapors. Cooling air slots in the generator must not become clogged with snow, leaves or any other foreign material.

NOTE: Do Not use a garden hose to clean generator. Water can enter engine fuel system and cause problems. In addition, if water enters generator through cooling air slots, some of the water will be retained in voids and cracks of the rotor and stator winding insulation. Water and dirt buildup on the generator internal windings will eventually decrease the insulation resistance of these windings.

To Clean the Generator

- Use a damp cloth to wipe exterior surfaces clean.
- Soft, bristle brush may be used to loosen caked on dirt or oil.
- A vacuum cleaner may be used to pick up loose dirt and debris.
- Low pressure air (not to exceed 25 psi) may be used to blow away dirt. Inspect cooling air slots and opening on generator. These openings must be kept clean and unobstructed.

STORAGE INSTRUCTIONS

The generator should be started at least once every seven days and allowed to run at least 30 minutes. If this cannot be done and you must store the unit for more than 30 days, use the following guidelines to prepare it for storage.

Generator Storage

- Clean the generator as outlined in "To Clean the Generator."
- Check that cooling air slots and openings on generator are open and unobstructed.

DANGER! Storage covers can be flammable. **Do Not** place a storage cover over a hot generator. Let the unit cool for a sufficient time before placing the cover on the unit.

Engine Storage

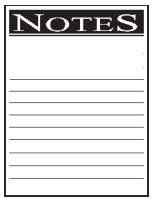
See engine owner's manual for instructions.

Other Storage Tips

- **Do Not** store gasoline from one season to another.
- Replace your gasoline can if it starts to rust. Rust and/or dirt in a gasoline can cause problems when you use contaminated fuel with this unit.
- Store in clean and dry area.

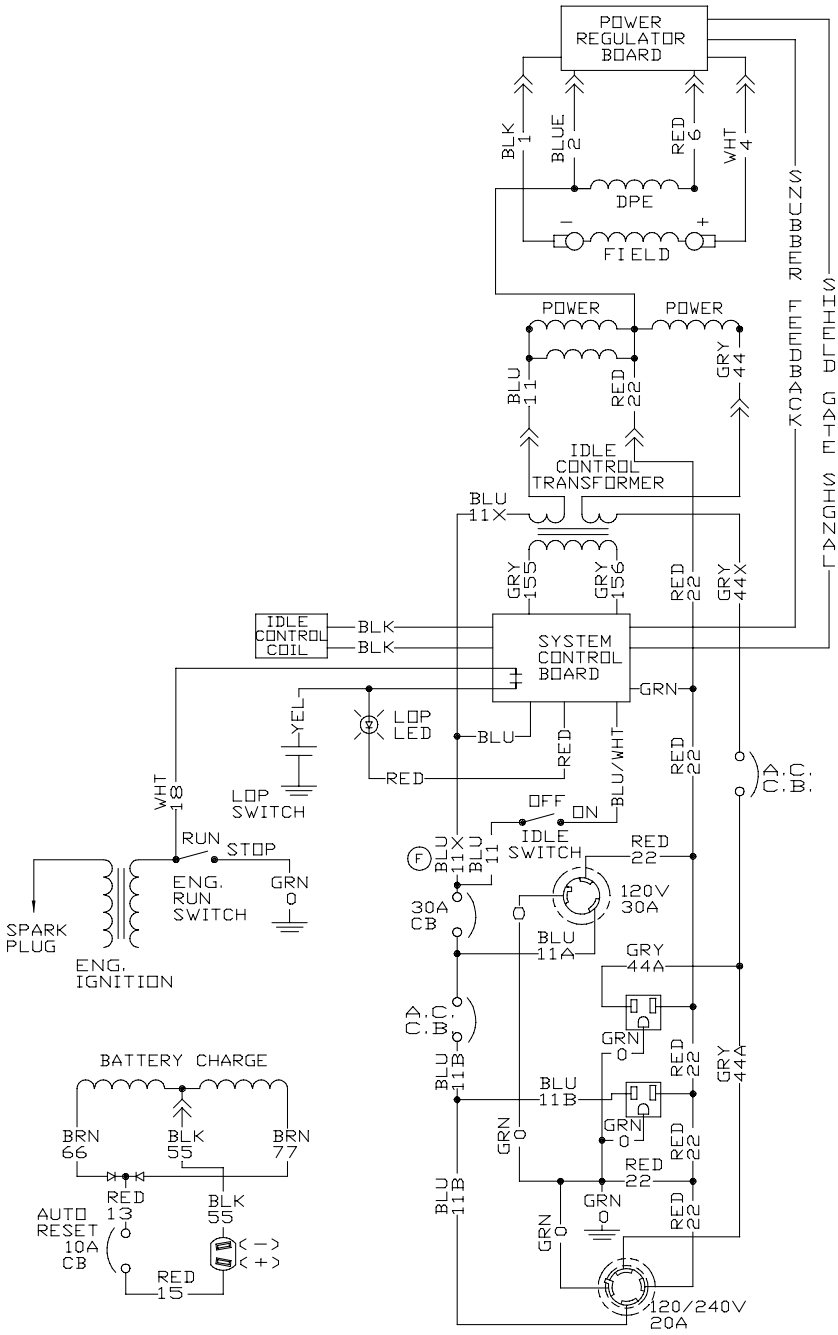
TROUBLESHOOTING

Problem	Cause	Solution
Engine is running, but no AC output is available.	1. Circuit breaker is open. 2. Poor connection or defective cord set. 3. Connected device is bad. 4. Fault in generator.	1. Reset circuit breaker. 2. Check and repair. 3. Connect another device that is in good condition. 4. Contact Generac service facility.
Engine runs good but bogs down when loads are connected.	1. Short circuit in a connected load. 2. Generator is overloaded. 3. Engine speed is too slow. 4. Shorted generator circuit.	1. Disconnect shorted electrical load. 2. See "Don't Overload the Generator" on page 10. 3. Contact Generac service facility. 4. Contact Generac service facility.
Engine will not start; or starts and runs rough.	1. Run/Stop switch set to **"Stop"**. 2. Dirty air cleaner. 3. Out of gasoline. 4. Stale gasoline. 5. Spark plug wire not connected to spark plug. 6. Bad spark plug. 7. Water in gasoline. 8. Overchoking. 9. Low oil level. 10. Excessively rich fuel mixture. 11. Intake valve stuck open or closed. 12. Engine has lost compression.	1. Set switch to **"Run"**. 2. Clean or replace air cleaner. 3. Fill fuel tank. 4. Drain gas tank and fill with fresh fuel. 5. Connect wire to spark plug. 6. Replace spark plug. 7. Drain gas tank; fill with fresh fuel. 8. Put choke lever to **"No Choke"** position. 9. Fill crankcase to proper level. 10. Contact Generac service facility. 11. Contact Generac service facility. 12. Contact Generac service facility.
Engine shuts down during operation.	1. Out of gasoline. 2. Low oil level. 3. Fault in engine.	1. Fill fuel tank. 2. Fill crankcase to proper level. 3. Contact Generac service facility.
Engine lacks power.	1. Load is too high. 2. Dirty air filter. 3. Engine needs to be serviced.	1. See "Don't Overload the Generator" on page 10. 2. Replace air filter. 3. Contact Generac service facility.
Engine "hunts" or falters.	1. Choke is opened too soon. 2. Carburetor is running too rich or too lean.	1. Move choke to halfway position till engine runs smoothly. 2. Contact Generac service facility.

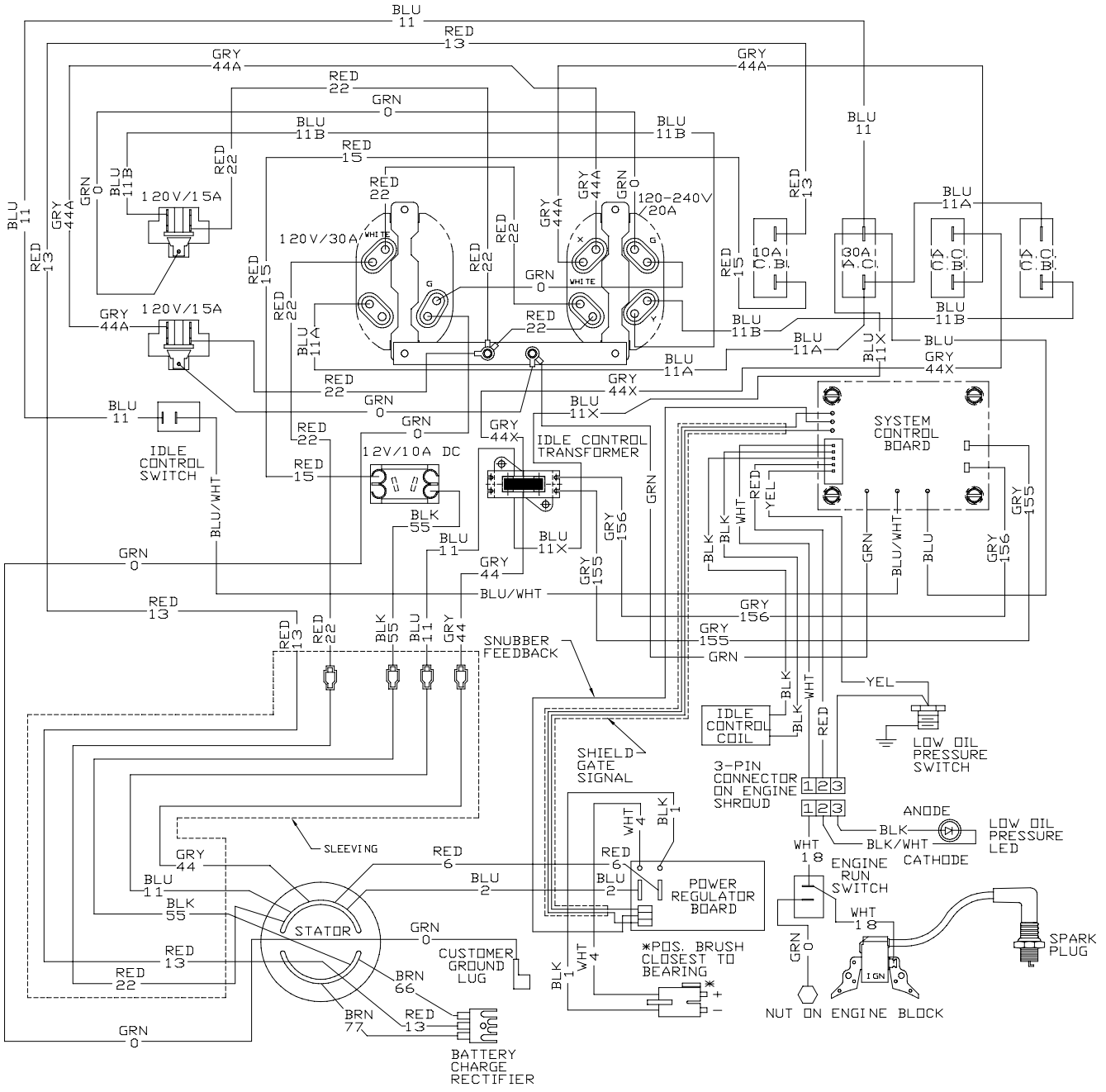


NOTES

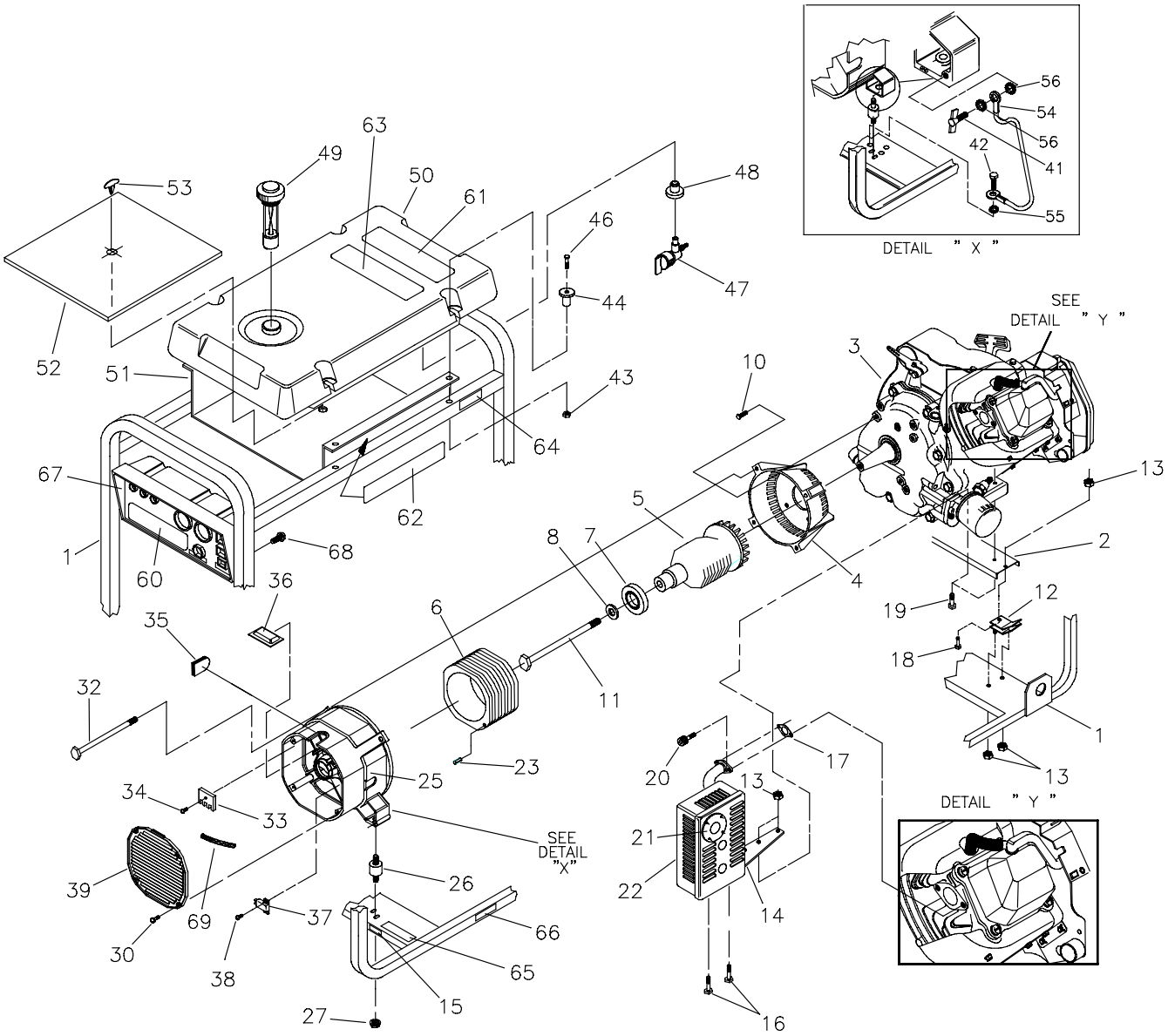
ELECTRICAL SCHEMATIC

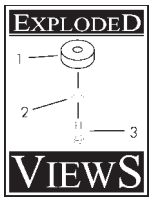


WIRING DIAGRAM



EXPLODED VIEW – MAIN UNIT





PARTS LIST – MAIN UNIT

Item	Part #	Qty	Description
1	A93199	1	CRADLE, XL
2	A84021	1	SUPPORT, Engine
3	NSP	1	ENGINE
4	66365	1	HOUSING, Engine Adapter
5	84141J	1	ASSEMBLY, Rotor
6	83540J	1	ASSEMBLY, Stator
7	65791	1	BEARING
8	96796	1	WASHER, M8 Flat
10	86307	4	HHMS, 5/16-24 x 3/4
11	47480	1	HHCS, 5/16-24 x 7"
12	84508	2	MOUNT, Vibration 45°
13	52858	8	NUT, M8 Locking
14	83208	1	BRACKET, Muffler
15	B4986	1	DECAL, Ground
16	66476	2	HHMS, LW M6 1.00 x 12
17	89476	1	GASKET, Exhaust
18	70644	1	PPHMS, M8 1.25 x 20
19	84346	3	PPHMS, M8 x 35
20	40976	2	SHCS, M8 1.25 x 20
21	83083	1	SCREEN, Spark Arrest
22	83071	1	MUFFLER
23	81917	1	PIN, Roll M4 x 10
25	66825-B	1	CARRIER, Rear Bearing
26	85652	2	MOUNT, Vibration
27	67989	2	NUT, M8 Flanged Serrated
30	74908	4	TAPTITE, M5-0.8 x 10
32	86308	4	BOLT, M6 - 1.0 x 115
33	65795	1	RECTIFIER, Battery Charge
34	66849A	1	TAPTITE, M5 0.8 x 20
35	67022	1	GROMMET, Rubber
36	84132	1	ASSEMBLY, Drive Module Pwr Reg.
37	66386	1	ASSEMBLY, Brush Holder
38	66849	2	TAPTITE, M5 0.8 x 16
39	B4871	1	COVER, Bearing Carrier
41	86494	1	SCREW, M6 -1.0 x 16 Wing
42	86292	1	HHCS, 10 - 16 x 3/4" Self Driller
43	77395	4	NUT, M6 Flange Lock
44	83465	4	GROMMET, Tank
46	78831B	4	HHMS, M6 1.0 x 60
47	80270	1	VALVE, Tank
48	78299	1	BUSHING, Plastic Tank
49	85134	1	GAUGE, Fuel
50	88325	1	TANK, Fuel
51	B84042	1	SHIELD, Heat
52	84687	1	INSULATION, #2-1/4" Thick
53	85000	1	CLIP, Insulation
54	14353621	1	WIRE, Ground
55	23762	1	WASHER, Shakeproof #10
56	26850	2	WASHER, M6 Shakeproof
60	B4399	1	DECAL, Control Panel
61	92982	1	DECAL, Danger
62	B4398	2	DECAL, Heat Shield
63	93826	1	DECAL, Operating Instructions
64	73054	1	DECAL, Fuel Shut Off
65	20566	1	DECAL, Generac 1-800
66	77816	1	DECAL, Caution Hot Muffler
67	87116	1	ASSY., Control Panel
68	B2153	4	HHCS, 12 - 14 x 7/8 Self Drill
69	84409	1	SLEEVING, Flexo, HW 1/2" x .83 ft.

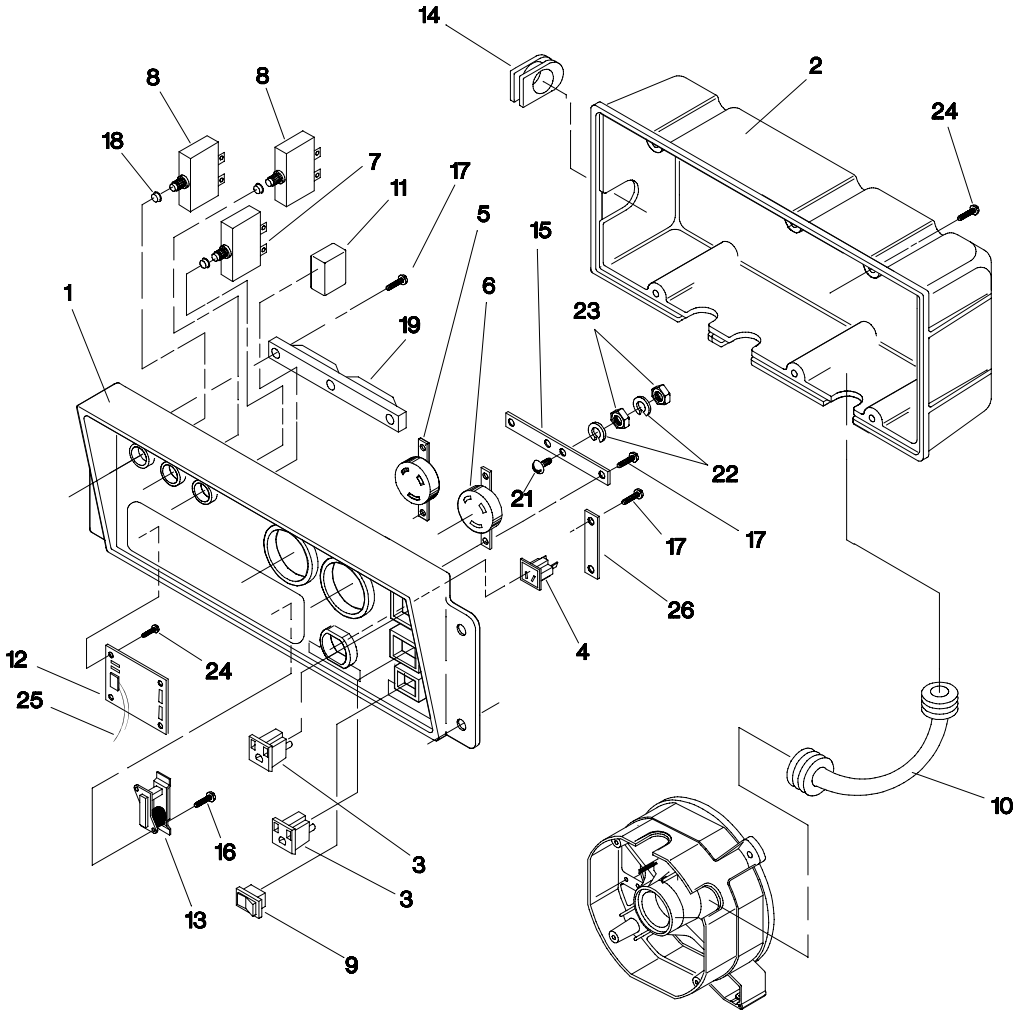
Parts Not Illustrated:

37806	120 Volt AC 30 Amp Plug
43483	120/240 Volt AC 20 Amp Plug
65787	Battery Charge Cable
72347	Spark Plug
78601	Air Filter
84882	Spark Plug Wrench
B4400	Owner's Manual
B4572	Video
BB3061	Oil, 28 oz.
NSP	Engine Owner's Manual

Optional Accessories Not Included:

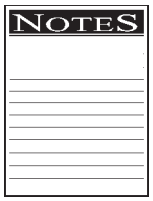
84883	Cord Wrap
84895	Storage Cover

EXPLODED VIEW AND PARTS LIST – CONTROL PANEL



Item	Part #	Qty.	Description
1	83976	1	PANEL, Control
2	83975	1	BOX, Control
3	66818	2	OUTLET, 120 Volts AC
4	66821	1	OUTLET, 12 Volts DC
5	68867C	1	OUTLET, 120/240 Volts, 20 Amp Locking
6	68868C	1	OUTLET, 120 Volts, 30 Amp Locking
7	75207A	1	CIRCUIT BREAKER, 30 Amp
8	75207G	2	CIRCUIT BREAKER, 18 Amp
9	82538	1	SWITCH, On/Off Rocker
10	84134	1	GROMMET, Rubber
11	83514	1	CIRCUIT BREAKER, 10 Amp
12	83970	1	CONTROL BOARD, System

Item	Part #	Qty.	Description
13	84028	1	TRANSFORMER, Idle Control
14	67022	1	GROMMET, Rubber
15	85584	1	BAR, Bus
16	84543A	2	SCREW, 3.0 x 12mm
17	84543C	9	SCREW, 3.5 x 18mm
18	84198	3	SHIELD, Circuit Breaker
19	84197	1	BAR, Circuit Breaker Retaining
21	75476	2	SCREW, 4.15 x 16mm
22	22264	4	WASHER, M4 Lock
23	51715	4	NUT, M3 Hex
24	84543B	10	SCREW, 3.5 x 12mm
25	84335	1	WIRE HARNESS
26	82542	1	BAR, DC Outlet Retaining



NOTES

LIMITED WARRANTY

FOR "GN" ENGINE DRIVEN PORTABLE GENERATORS

GENERAC PORTABLE PRODUCTS (hereafter referred to as the COMPANY) warrants to the original purchaser that the alternator and control panel for its portable generator will be free from defects in materials or workmanship for the items and period set forth below from the date of original purchase. This warranty is not transferable and applies only to portable generators driven by a GN-Series engine.

	Consumer*	**Commercial***
Alternator	2 years (2nd year parts only)	1 year
Engine	Warranted solely by the engine manufacturer	

With the exception of European Community Countries, all units bound for export shall be warranted for One (1) Year in Consumer applications, and 90 days in Commercial applications as defined below.

***NOTE: For the purpose of this warranty "consumer use" means personal residential household use by original purchaser. This warranty does not apply to units used for Prime Power in place of utility. "Commercial Use" means all other uses, including rental, construction, commercial and income producing purposes. Once a generator has experienced commercial use, it shall thereafter be considered a commercial use generator for the purposes of this warranty.**

During said warranty period, the COMPANY will, at is option, repair or replace any part which, upon examination by the COMPANY, is found to be defective under normal use and service**. Starting batteries are not warranted by the COMPANY. All transportation costs under warranty, including return to the factory if necessary, are to be borne by the purchaser and prepaid by the purchaser. This warranty does not cover normal maintenance and service and does not apply to a generator set, alternator, or parts which have been subjected to improper or unauthorized installation or alteration, misuse, negligence, accident, overloading, overspeeding, improper maintenance, repair or storage so as, in the COMPANY's judgement, to adversely affect its performance and reliability.

****NORMAL WEAR: As with all mechanical devices, the generator need periodic parts service and replacement to perform well. This warranty will not cover repair when normal use has exhausted the life of a part or generator.**

THERE IS NO OTHER EXPRESS WARRANTY. THE COMPANY HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE TO THE EXTENT PERMITTED BY LAW. THE DURATION OF ANY IMPLIED WARRANTIES WHICH CANNOT BE DISCLAIMED IS LIMITED TO THE TIME PERIOD AS SPECIFIED IN THE EXPRESS WARRANTY. LIABILITY FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES UNDER ANY AND ALL WARRANTIES IS EXCLUDED. THE COMPANY ALSO DISCLAIMS ANY RESPONSIBILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, SUCH AS THE LOSS OF TIME OR THE USE OF THE POWER EQUIPMENT, OR ANY COMMERCIAL LOSS DUE TO THE FAILURE OF THE EQUIPMENT: AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

For service, see your nearest COMPANY authorized warranty service facility or call 1-877-544-0982. Warranty service can be performed only by a COMPANY authorized service facility. This warranty will not apply to service at any other facility. At the time of requesting warranty service, evidence of original purchase date must be presented.

GENERAC PORTABLE PRODUCTS
Jefferson, Wisconsin 53549